

UPRIGHT VACUUM CLEANER WITH CYCLONIC AIRFLOW

Abstract of the Disclosure

A vacuum cleaner includes a first housing defining a cyclonic airflow chamber and a second housing defining a main suction opening that is in communication with an inlet of the cyclonic chamber. A suction source has a suction airstream inlet in communication with an outlet of the cyclonic chamber, and establishes a suction airstream that enters said main suction opening, passes through said cyclonic chamber, and passes to an outlet of said suction source. A substantial portion of particulates entrained in the suction airstream are separated therefrom when said suction airstream moves in a cyclonic fashion through the cyclonic chamber. A main filter assembly, preferably including filter medium comprising polytetrafluoroethylene (PTFE), is located in the cyclonic chamber so that a suction airstream moving from the main suction opening to the inlet of said suction source by way of the cyclonic airflow chamber passes through the filter medium thereof after said airstream moves in a cyclonic fashion within the cyclonic airflow chamber to remove residual particulates from the suction airstream before it leaves the cyclonic chamber. A HEPA filter can be provided to filter the suction airstream exhausted through the outlet of the suction source prior to the airstream being discharged from the vacuum.